Wetland Mitigation Construction Final Report

L.E. CARPENTER & COMPANY

170 North Main Street
Borough of Wharton
Morris County, New Jersey

Prepared for:



2025 East Beltline Avenue SE, Suite 402 Grand Rapids, MI 49546

Prepared by:



11181 Marwill Avenue West Olive, MI 49460 616-847-1680

August 28, 2005

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INTRODUCTION

L.E. Carpenter & Company (LEC) was granted Authorization for Freshwater Wetlands Statewide General Permit No. 4, permit number 1439-04-0001.1 (FWW 040001), by the New Jersey Department of Environmental Protection (NJDEP) Land Use Regulation Program (LURP) on February 25, 2005. This authorization permitted the disturbance of ±0.42 acre of freshwater wetlands and/or State open waters and ±0.19 acre of wetland transition area. These temporary impacts were required in order to implement the Remedial Action Work Plan (RAWP) for the subject LEC site located at 170 North Main Street, Borough of Wharton, Morris County, New Jersey (Figure 1). The project area is located in the USGS Dover, New Jersey quadrangle with approximate center state plane coordinates of N 754326.5 E 470891.83 (NAD 1983) (Figure 1).

A Wetland Restoration Plan for temporary wetland impacts was prepared and submitted with the initial permit application package. A set of plan sheets entitled Wetland and Stream Encroachment Applications, prepared by RMT, Inc, dated February 21, 2005 outlines proposed restoration activities, planting plans, and final grading, as amended, through the permitting process.

RESTORATION PLAN

LEC proposed to provide wetland restoration for unavoidable temporary wetland impacts (0.42 acre) in the form of full re-establishment of pre-existing grades and vegetation communities. Restoration was proposed for completion at the same locations of disturbance. Restoration of temporary impacts to transition zones (0.19 acre) was proposed for completion in the same manner as outlined above. All impact areas were the result of excavation activities directly associated with implementation of the New Jersey Department of Environmental Protection (NJDEP) and United States Environmental Protection Agency (USEPA) approved RAWP. Contaminated soils under the existing wetland systems were proposed for removal and clean topsoil would be placed back within the wetland impact areas, restoring them to pre-existing grade. As mentioned above, proposed restoration activities were outlined in the February 21, 2005 plan sheets.

On June 24, 2005, a post-final grade construction meeting was held on site to review post construction site conditions and permit-approved wetland restoration activities. Items discussed and reviewed during this meeting included project progress to date, permit compliance issues, and proposed planting plan species substitutions (Appendix A). Those in attendance included:

Jill Aspinwall, NJDEP LURP, Case Manager
Jo Dale Legg, NJDEP LURP, Senior Environmental Specialist Mitigation Unit
Nicholas Clevett, RMT, Inc., Project Manager
Brian Majka, JFNew, Restoration Services Unit Manager

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Soil Preparation and Grading

Grading of the restoration areas was completed irregularly and with very little compaction in June 2005. The soil was very loosely distributed prior to the final agency site visit on June 24, 2005, and steady rains had further loosened the soil prior to planting. All seed was broadcast and hand-raked into the soil.

A professional survey of all wetland disturbed and restoration areas, and transition zones was completed on August 4, 2005 by Weber Associates, Inc., located in Sparta, New Jersey (Appendix B). These results illustrate the completion of successful final grading in accordance with permitted plans. As-built wetland and transition zone impacts and final grades are shown on Figure 2. The perimeter of the wetland restoration and transition zone boundaries was marked in the field with 3-foot lengths of 3-inch white PVC. These PVC boundary points are shown on Figure 2. The three-foot length was agreed upon during the post-grading construction meeting (Appendix A).

Prior to being delivered and spread across the site, the topsoil proposed for use in both the wetland area and transition zones was tested by the borrow source (Bendendorf Landscaping) for organic composition. The analytical results are included (Appendix C). These test results were reviewed by NJDEP LURP staff and accepted during the June 24, 2005 post-construction meeting. Subsequently, NJDEP LURP did not require organic analysis of soils collected at the six locations outlined below.

In accordance with permit Special Condition 11e, six representative soil borings were collected and evaluated on June 28, 2005. The locations of the six borings are shown on Figure 2. A description of each soil boring profile is provided below.

• Boring 1 (40.54.15.00748N 74.34.31.41719W)

| 0 - 10" | 10YR 4/3 | loam | |
|----------|----------|------|--|
| 10 - 20" | 10YR 3/3 | loam | |

• Boring 2 (40.54.14.42438N 74.34.31.14259W)

| 0 – 13" | 10YR 4/2 | loamy clay |
|----------|----------|------------|
| 13 – 20" | 10YR 3/2 | loamy clay |

• Boring 3 (40.54.13.75148N 74.34.31.31904W)

| 0 - 15" | 10YR 4/3 | loam |
|----------|----------|------------|
| 15 - 20" | 10YR 3/1 | loamy clay |

Boring 4 (40.54.13.94790N 74.34.29.98567W)

| 0-2" | 10YR 4/3 | loam |
|---------|----------|------|
| 2 – 20" | 10YR 3/2 | loam |



• Boring 5 (40.54.14.63046N 74.34.29.45719W)

0 - 9" 10YR 4/3 loam 9 - 20" 10YR 3/2 loam

Boring 6 (40.54.12.80847N 74.34.34.70682W)

0 – 20" 10YR 3/3 loamy clay

Hydrology

The restoration of wetland areas at their existing locations along the floodplain of the Rockaway River will allow for the successful re-establishment of wetland hydrology. This existing hydrologic source is primarily comprised of direct surface water flow from the river. Sufficient wetland hydrology is currently present and will continue to be after the completion of site remediation activities. With the restoration of the impact areas to pre-existing grades, no obstructions to surface water flow have resulted from either remedial or restorative actions.

Planting Plan

Once earth-moving activities were completed in June 2005, seed and woody plant materials were installed throughout the restored wetland and transition zones between June 27th and 29th 2005. The bottom contours of all temporary wetland and transition zone impact areas were seeded with the appropriate native species mixes as specified in the restoration plan. Only native plant species were used for establishing the permanent vegetative community. No exotic or hybrid nursery species were utilized. The forested/scrub-shrub wetland and transition zone impact areas were also planted with bareroot trees as described in the subsequent narrative.

Along the 0.03 acre of drainage channel restoration, the following planting techniques were implemented. The slope was backfilled with topsoil and compacted to prevent sloughing. The sideslope was then seeded with the slope stabilization seed mix specified in the restoration plan and covered with a double-sided straw coconut erosion control blanket equivalent to North American Green SC-150. Shrubs were planted on at least 4-foot centers across the 0.03 acre of slope stabilization.

A list of actual plant species, seeding rates, and planting quantities installed within the restored wetland areas is provided below and visually shown on Figure 2. These quantities are presented assuming 100% pure live seed (PLS) test results. The total number of tree and shrub species planted was slightly increased over that number initially proposed to compensate for the late-season planting date. Several tree and shrub species substitutions were required due to availability of nursery stock at the time of planting. However, these substitutions were proposed and approved by NJDEP LURP staff during the post-grading site inspection on June 24, 2005 (Appendix A).



The approved substitutions consisted of the following:

- Pussy willow (Salix discolor) will replace black willow (Salix nigra) and sandbar willow (Salix exigua)
- Green ash (Fraxinus pennsylvanica) will replace red maple (Acer rubrum)
- Black walnut (Juglans nigra) will replace American elm (Ulmus americana)

Emergent Wetland (PEM) Impact Area (0.19 acre)

Emergent Wetland Seed Mix (32.27 pounds/acre)

| NATIVE COMPONENT | | |
|-------------------------|-----------------------|-----------------|
| Scientific Name | Common Name | Ounces/Acre |
| Acorus calamus | Sweet flag | 8.50 |
| Alisma subcordatum | Common water plantain | 8.00 |
| Echinochloa crusgalli | Barnyard grass | 12.00 |
| Eleocharis obtusa | Blunt spike rush | 3.00 |
| Iris virginica shrevei | Blue flag iris | 4.00 |
| Juncus effusus | Soft rush | 3.00 |
| Leersia oryzoides | Rice cut grass | 4.00 |
| Lobelia cardinalis | Cardinal flower | 0.75 |
| Lobelia siphilitica | Great blue lobelia | 1.00 |
| Mimulus ringens | Monkey flower | 2.00 |
| Peltandra virginica | Arrow arum | 16.00 |
| Polygonum pensylvanicum | Pinkweed | 6.00 |
| Pontederia cordata | Pickerelweed | 8.00 |
| Sagittaria latifolia | Common arrowhead | 8.00 |
| Scirpus validus | Softstem bulrush | 6.00 |
| Sparganium eurycarpum | Common burreed | 10.00 |
| TOTAL | | 100.25 oz/acre |
| • • | = | = 6.27 lbs/acre |

TEMPORARY COVER COMPONENT

| Scientific Name | Common Name | | Ounces/Acre |
|--------------------|-------------|---|--------------------|
| Agrostis alba | Redtop | | 16.00 |
| Lolium multiflorum | Annual rye | | 400.00 |
| TOŢAL | | | 416.00 ounces/acre |
| • | | = | 26.00 pounds/acre |



Main Forested/Scrub-Shrub (PFO/SS) Impact Area (0.20 acre)

Wooded Wetland Understory Seed Mix (34.41 pounds/acre)

| | 1 | |
|--------------------------|-----------------------|---------------|
| NATIVE COMPONENT | 1 | |
| Scientific Name | Common Name | Ounces/Acre |
| Actinomeris alternifolia | Wingstem | 1.00 |
| Alisma subcordatum | Common water plantain | 3.00 |
| Aster umbellatus | Flat-top aster | 1.25 |
| Bidens cernua | Nodding bur marigold | 3.00 |
| Calamagrostis canadensis | Blue joint grass | 3.00 |
| Carex crinita | Fringed sedge | 2.00 |
| Carex hystericina | Porcupine sedge | 4.00 |
| Carex lupulina | Common hop sedge | 4.00 |
| Carex vulpinoidea | Fox sedge | 6.00 |
| Chelone glabra | Turtlehead | 1.25 |
| Elymus canadensis | Canada wild rye | 6.00 |
| Elymus virginicus | Virginia wild rye | 12.00 |
| Glyceria striata | Fowl manna grass | 4.00 |
| Helenium autumnale | Sneezeweed | 1.50 |
| Leersia oryzoides | Rice cut grass | 2.00 |
| Lobelia silphilitica | Great blue lobelia | 1.50 |
| Mimulus ringens | Monkeyflower | 1.75 |
| Panicum virgatum | Switch grass | 2.50 |
| Rudbeckia laciniata | Wild golden glow | 0.75 |
| Scirpus atrovirens | Dark green rush | 6.00 |
| Spartina pectinata | Prairie cord grass | <u>4.00</u> |
| TOTAL | <u> </u> | 70.50 oz/acre |
| | <u> </u> | 4 41 1ha/aama |

= 4.41 lbs/acre

TEMPORARY COVER COMPONENT

| Scientific Name | Common Name | (ounces/acre) |
|--------------------|---------------------------|----------------|
| Agrostis alba | Redtop | 16.00 |
| Elymus hystrix | Eastern bottlebrush grass | 64.00 |
| Lolium multiflorum | Annual rye | <u>400.00</u> |
| TOTAL | · | 480.00 oz/acre |
| , | = | 30.00 lbs/acre |

Bareroot Trees (625 trees/acre)

| Scientific Name | | Common Name | Quantity |
|------------------------|-----|--------------|-----------|
| Acer saccharinum | ÷ | Silver maple | 25 |
| Betula nigra | | River birch | 25 |
| Fraxinus pennsylvanica | ÷ | Green ash | 50 |
| Quercus palustris | G G | Pin oak | <u>25</u> |
| | | TOTAL | 125 |



Drainage Channel (PFO/SS) Side Slope Impact Area (0.03 acre)

Slope Stabilization Mix (36.00 pounds/acre)

| NATIVE | COMI | PONENT |
|---------------|--------|--------|
| 7 17 7 7 7 7 | \sim | O11211 |

| Scientific Name | Common Name | Ounces/Acre |
|------------------------|-----------------|--------------------|
| Andropogon gerardii | Big bluestem | 20.00 |
| Andropogon scoparius | Little bluestem | 32.00 |
| Bouteloua curtipendula | Side-oats grama | 3.00 |
| Elymus canadensis | Canada wild-rye | 5.00 |
| Panicum virgatum | Switch grass | 12.00 |
| Sorghastrum nutans | Indian grass | <u>24.00</u> |
| TOTAL | | 96.00 ounces/acre |
| | | = 6.00 pounds/acre |

TEMPORARY COVER COMPONENT

| Scientific Name | Common Name | Ounces/Acre |
|--------------------|---------------------------|--------------------|
| Agrostis alba | Redtop | 16.00 |
| Elymus hystrix | Eastern bottlebrush grass | 64.00 |
| Lolium multiflorum | Annual rye | <u>400.00</u> |
| TOTAL | | 480.00 ounces/acre |
| | ≓ | 30.00 pounds/acre |

Bareroot Shrubs (3,333 shrubs/acre)

| Scientific Name | Common Name | Quantity |
|-----------------|---------------|-----------|
| Cornus amomum | Silky dogwood | 50 |
| Salix discolor | Pussy willow | <u>50</u> |
| | TOTAL | 100 |

Transition Zone Impact Area (0.18 acre)

Slope Stabilization Mix (36.00 pounds/acre)

| NATIVE COMPONE | N | I | . ' |
|----------------|---|---|-----|
|----------------|---|---|-----|

| Scientific Name | Common Name | Ounces/Acre |
|------------------------|-----------------|-------------------|
| Andropogon gerardii | Big bluestem | 20.00 |
| Andropogon scoparius | Little bluestem | 32.00 |
| Bouteloua curtipendula | Side-oats grama | 3.00 |
| Elymus canadensis | Canada wild-rye | 5.00 |
| Panicum virgatum | Switch grass | 12.00 |
| Sorghastrum nutans | Indian grass | <u>24.00</u> |
| TOTAL | • | 96.00 ounces/acre |



Bareroot Trees (833 trees/acre)

| Scientific Name | Common Name | Quantity |
|------------------------|------------------|-----------|
| Acer saccharum | Sugar maple | 25 |
| Juglans nigra | Black walnut | 25 |
| Liriodendron tulipfera | Tulip tree | 50 |
| Quercus rubra | Northern red oak | <u>50</u> |
| _ | TOTAL | 150 |

SITE PHOTOGRAPHS

Photographs were taken of the site prior to and during planting activities (Ref. Appendix D). A description of each photograph is provided.

GENERAL PERMIT CONDITION COMPLIANCE

Each applicable permit condition is presented below along with a brief summary of how it was addressed or completed during initial wetland restoration activities. Special Conditions 1 through 11 pertain to wetland restoration construction activities while 12 though 17 are applicable to future monitoring and development of the restored areas.

Special Condition 1

The primary objective of the project is to address site remediation. All USEPA and NJDEP Site Remediation Program requirements will be adhered to and incorporated into project activities.

Special Condition 2

No grading or construction activities were conducted along the Rockaway River between the dates of March 15 and June 15. All activities in applicable areas were completed immediately upon permit issuance. Appropriate county approved erosion control measures were installed prior to March 15.

Special Condition 3

All backfill soils consisted of clean, suitable material free from toxic pollutants in toxic amounts.

Special Condition 4

The additional wetland transition zone was incorporated into restoration boundaries and was planted with the same vegetation species as the remaining transition zone on site.

Special Condition 5

The restoration was completed concurrently with remediation project activities.

Special Condition 6

Wetland restoration activities were completed in accordance with the permitted plan sheets, prepared and submitted by RMT, Inc., dated February 21, 2005.

JFNew & Associates, Inc.

RMT, Inc. – L.E. Carpenter & Company Site, Wharton, NJ

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Special Condition 7

NJDEP LURP wetland mitigation staff members were contacted regarding the pre-construction meeting. However, due to the time sensitive nature of the project (to initiate remedial actions prior to the March 15 trout stream timing restriction), it was decided by all involved entities to forgo this meeting and initiate remedial actions.

Special Condition 8

The mitigation designer, JFNew, was present during the critical stages of construction of the restoration areas. After inspecting the areas, no changes to site conditions or plans were deemed necessary.

Special Condition 9

A disc was scheduled to be run across the restoration areas prior to planting. However, due to the minimal compaction of the soil and the fact that there was notable recent rainfall, JFNew advised that a disc was not to be run over the area. This would have resulted in rutting of the soil and no net gain to the planting medium due to the heavily saturated conditions.

Special Condition 10

A post-grading construction meeting was held with NJDEP LURP, RMT, and JFNew staff on June 24, 2005 as previously described (Appendix A).

Special Condition 11

This report comprises and satisfies the wetland mitigation construction final report requirement.

- 11a. The Wetland Mitigation Project Completion of Construction Form is attached (Appendix E).
- 11b. The as-built survey coordinates table is attached (Appendix B). Final grades are shown on Figure 2. Actual planting quantities are presented in the preceding "Planting Plan" section, and also shown on Figure 2.
- 11c. The 3 inch white PVC was erected along the edge of the wetland and transition zone areas as specified. They are visible in the site photographs (Appendix D), are shown on Figure 2, and will remain on site throughout the five-year monitoring period.
- 11d. Photos of the wetland restoration areas are enclosed (Appendix D).
- 11e. The six soil profile descriptions were provided in the preceding "Soil Preparation and Grading" section, and are shown on Figure 2. The soil profiles illustrate that suitable soils were spread across the entire wetland restoration and transition zone areas.
- 11f. The soil test results demonstrated that the subject topsoil used in the restoration and transition zone areas contains 12.6% organic content (Appendix C). This meets the minimum permit requirements.
- 11g. The wetland and transition zone restoration areas were posted with permanent signs as required. These signs are evident in the site photographs (Appendix D), and are shown on Figure 2.



11h. The permanent signs contain all required and pertinent data specified in the permit. Specifically, the signs read:

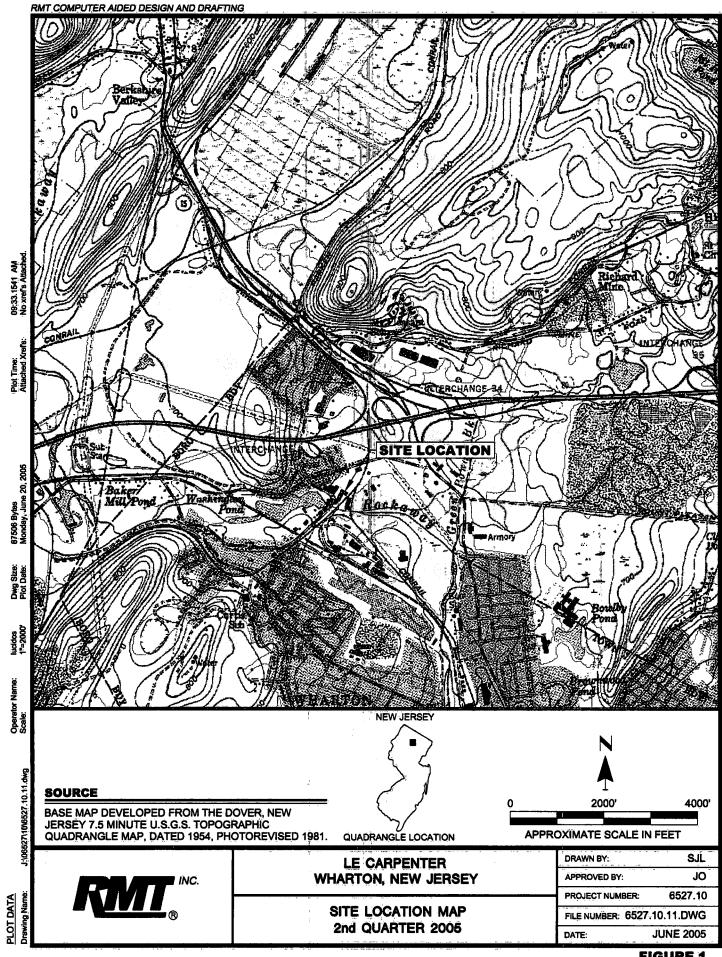
WETLAND MITIGATION PROJECT Mowing, cutting, dumping and draining is strictly prohibited. L.E. Carpenter & Company Permit No. 1439-04-0001.1 (FWW 040001) Point of Contact: Nick Clevett, RMT, Inc., (616) 975-5415

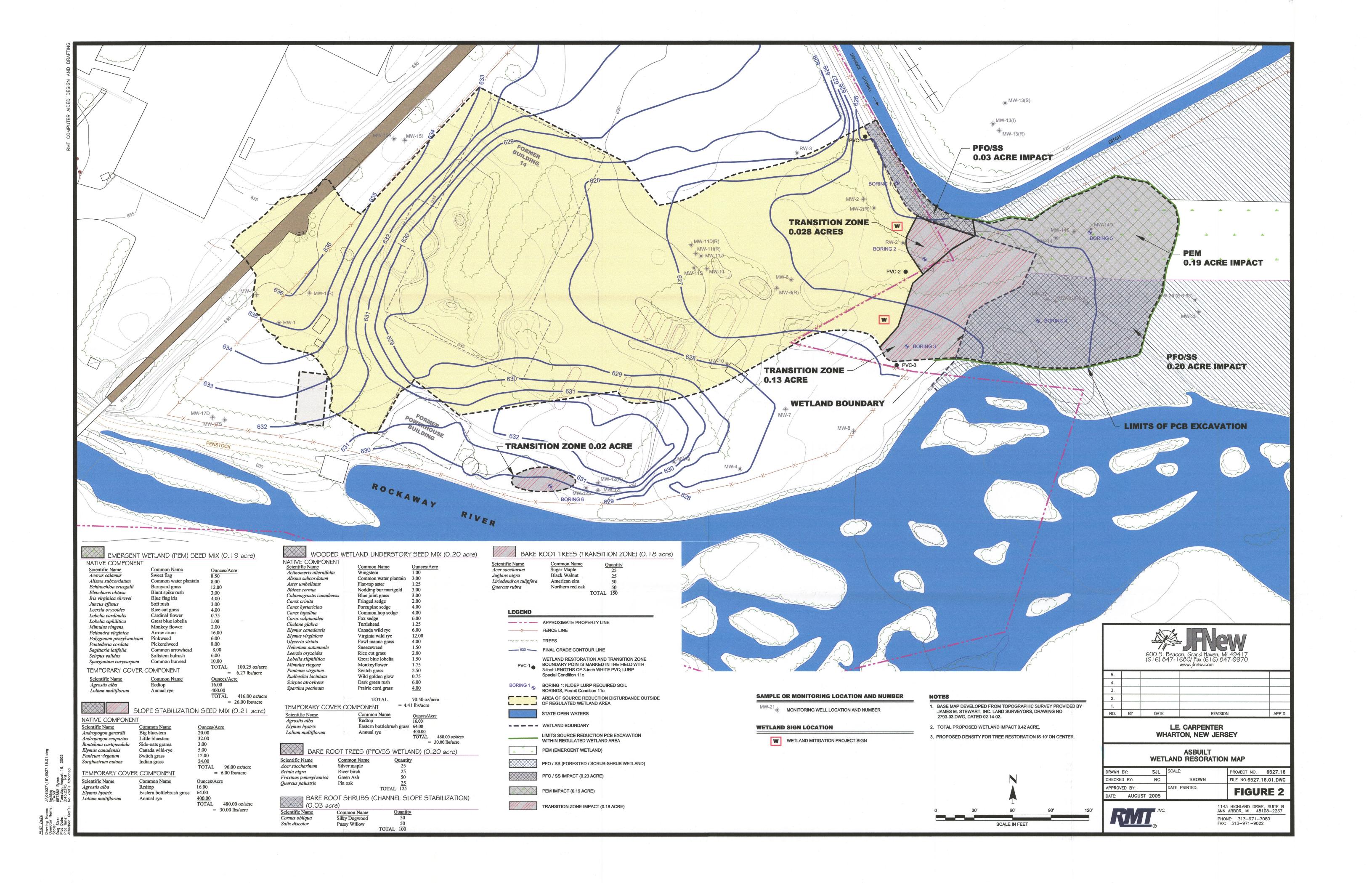
SUMMARY

Based on permit requirements and proposed restoration activities, the subject ±0.60 acre of wetland and associated transition zone restoration construction was successfully completed. Suitable soils were placed across the site, an appropriate hydrologic regime is fully anticipated based on observed conditions and as-built survey results, and plant species were successfully installed across the subject areas. No further action is required at this time. The first annual monitoring event will be conducted in 2005 with a monitoring report to be submitted to the NJDEP LURP by no later than December 31, 2005.

Figures







Appendices



Appendix A:

Letter Summary of Wetland Restoration Post-Grading Construction Meeting





2025 East Beltline Ave. SE Suite 402 Grand Rapids, MI 49546 Telephone: 616-975-5415 Fax: 616-975-1098

June 30, 2005

Ms. Jill Aspinwall
Case Manager
New Jersey Department of Environmental Protection
Land Use Regulation Program
501 East State Street, 2nd Floor
Post Office Box 439
Trenton, NJ 08625-0439

Subject: L.E. Carpenter & Company, Wharton, Morris County, New Jersey

Wetland Restoration Project

File No. 1439-04-0001.1 (FWW 040001)

June 24, 2005 Post Final Grade Construction Meeting

Dear Ms. Aspinwall:

It was a pleasure meeting both yourself and Jo Dale Legg at the L.E. Carpenter & Company (LEC) site on June 24, 2005, for the post final grade construction meeting. Our meeting on June 24, 2005, satisfies Special Condition No. 10 of the New Jersey Department of Environmental Protection (NJDEP) Land Use Regulation Program (LURP) Freshwater Wetlands Statewide General Permit (GP4) File No. 1439-04-0001.1 (FWW 040001) issued on February 25, 2005, by Mr. Mark A. Godfrey (Supervisor, Bureau of Inland Regulation, Morris and Bergen Counties Region). As we discussed at the site, find outlined in this letter the issues agreed upon relating to the approved wetlands restoration plan.

- 1. NJDEP LURP approved the substitution of the following tree and shrub species where necessary based on nursery availability:
 - Pussy Willow (Salix discolor) will replace Sandbar Willow (Salix exigua)
 - Green Ash (Fraxinus pennsylvanica) will replace Red Maple (Acer rubra)
 - Black Walnut (Juglans nigra) will replace American Elm (Ulmus americana)
- 2. NJDEP LURP agreed that the analytical data provided by the borrow source (Bendendorf Landscaping) for the top soil (Brown #1; 12.6% organic content) used to establish final grade in both the wetland and transition areas was adequate to satisfy the Total Organic Content (TOC) sampling and analyses required under Special Condition 11f of the permit. Per your request, the borrow source analytical data has been attached.
- 3. NJDEP LURP preferred the use of 3 feet (ft) tall versus 4 ft tall (Special Condition 11c) PVC stickups to demark the wetland, and only required 3 segments placed to demark the LEC/wetland boundary. Documentation of the type, size and placement of these demarcation points will be presented in the Final Report summarizing wetland and transition zone restoration activities (Ref. Special Permit Condition No. 11). This report will be submitted to NJDEP LURP within 30 days following completion of the restoration activities.

Ms. Jill Aspinwall New Jersey Department of Environmental Protection Land Use Regulation Program June 30, 2005 Page 2

- 4. Wetland and transition zone boundary survey coordinates will be provided to NJDEP LURP.
- 5. The wetland area does not require deed restriction, as the property is not owned by LEC.
- 6. Natural recruitment of native tree species will count toward mitigation success. A successful restoration will be determined by the total number of trees present at the end of the monitoring period (5 years). However, notes will be taken during the semiannual monitoring events differentiating between planted trees and volunteers to aid in determining planted tree species survival rates.
- 7. RMT will evaluate the NJ regulatory requirements regarding the use of pesticides to control invasive species near surface water bodies prior to the use of chemical applications. We will keep you informed as to the requirements deemed applicable at the LEC site, and potential actions taken if applicable.
- 8. RMT understands that NJDEP LURP agrees in the use of the *Galerucella sp.* beetle in controlling the spread of Purple loosestrife (*Lythrum salicaria*) into the newly restored wetland area. RMT will contact you prior to release, with the planned release to occur in Spring 2006.
- RMT understands that you will be the primary point of contact for all LEC wetland restoration,
 monitoring and reporting activities. Please use me as your primary RMT point of contact. I have
 enclosed a business card for your convenience.

Again, thank you for your time, and please feel free to contact me at your convenience with any questions.

Sincerely,

RMT, Inc.

Nicholas J. Clevett Senior Project Manager

Attachments: Top Soil (Brown #1) Analytical Data

cc: Cris Anderson, LEC
Ernie Schaub, LEC
Jim Lewis, LEC
Anthony Cinque, NJDEP
Steve Cipot, USEPA
Dan Oman, RMT

Jim Dexter, RMT Brian Majka, JFNew Kelly Rice, JFNew Steve Rice, JFNew Central Files **Appendix B:**Survey Coordinate Table



L.E. CARPENTER AND COMPANY

| Survey New Jersey State Plan | | fessional Survey Information D83 and NGVD88 Established By GPS Survey Opus Solution 12/03/04 | | LEC Point ID | LEC Point Description |
|------------------------------|-----------|--|-----------|-------------------|---------------------------|
| Coordinate No. | North (Y) | East (X) | Elevation | Y Y | |
| <u> </u> | FT | FT | FT | ort the trees com | DOS DYGALI ATVONI DYGDD Y |
| 761 | 754154.90 | 471288.07 | 627,01 | SILT_FENCE | PCB EXCAVATION EXTENT |
| 762 | 754156.39 | 471311.12 | 626.53 | SILT_FENCE | PCB EXCAVATION EXTENT |
| 763 | 754157.17 | 471336.43 | 626.87 | SILT_FENCE | PCB EXCAVATION EXTENT |
| 764 | 754152.85 | 471360.35 | 624.65 | SILT_FENCE | PCB EXCAVATION EXTENT |
| 765 | 754154.07 | 471370.52 | 625.06 | SILT_FENCE | PCB EXCAVATION EXTENT |
| 766 | 754149.03 | 471402.32 | 624.65 | SILT_FENCE | PCB EXCAVATION EXTENT |
| 767 | 754149.10 | 471424.17 | 625.06 | SILT_FENCE | PCB EXCAVATION EXTENT |
| 768 | 754153.34 | 471447.12 | 624.35 | SILT_FENCE | PCB EXCAVATION EXTENT |
| 769 | 754159.43 | 471473.78 | 623.88 | SILT_FENCE | PCB EXCAVATION EXTENT |
| 770 | 754162.62 | 471475.75 | - 624.10 | SILT_FENCE | PCB EXCAVATION EXTENT |
| 771 | 754188.16 | 471482.60 | 624.55 | SILT_FENCE | PCB EXCAVATION EXTENT |
| 772 | 754207.92 | 471492.46 | 624.69 | SILT_FENCE | PCB EXCAVATION EXTENT |
| 773. | 754227.06 | 471495.56 | 624.63 | SILT_FENCE | PCB EXCAVATION EXTENT |
| 774 | 754246.63 | 471502.52 | 624.67 | SILT_FENCE | PCB EXCAVATION EXTENT |
| 775 | 754263.36 | 471505.66 | 624.30 | SILT_FENCE | PCB EXCAVATION EXTENT |
| 776 | 754274.30 | 471502.93 | 624.09 | SILT_FENCE | PCB EXCAVATION EXTENT |
| 777 | 754292.93 | 471481.86 | 623.94 | SILT_FENCE | PCB EXCAVATION EXTENT |
| 778 | 754273.93 | 471502.77 | 624.16 | SILT_FENCE | PCB EXCAVATION EXTENT |
| 779 | 754298.38 | 471456.51 | 624.49 | SILT_FENCE | PCB EXCAVATION EXTENT |
| 780 | 754289.75 | 471440.72 | 624.34 | SILT_FENCE | PCB EXCAVATION EXTENT |
| 781 | 754278.80 | 471414.21 | 624.82 | SILT_FENCE | PCB EXCAVATION EXTENT |
| 782 | 754264.27 | 471391.35 | 624.78 | SILT_FENCE | PCB EXCAVATION EXTENT |
| 783 | 754266.03 | 471374.10 | 624.91 | SILT_FENCE | PCB EXCAVATION EXTENT |
| 784 | 754262.58 | 471362.56 | 624.49 | SILT_FENCE | PCB EXCAVATION EXTENT |
| 785 | 754261.04 | 471341.61 | 625.36 | SILT_FENCE | PCB EXCAVATION EXTENT |
| 1240 | 754212.43 | 471298.54 | 625.60 | FINAL TEMP | FINAL GRADE POINT |
| 1241 | 754544.56 | 471124.71 | 631.03 | FINAL ED PAV | FINAL GRADE POINT |
| 1242 | 754493.00 | 471156.37 | 630.58 | FINAL ED PAV | FINAL GRADE POINT |
| 1243 | 754449.49 | 471181.14 | 630.02 | FINAL ED PAV | FINAL GRADE POINT |

L.E. CARPENTER AND COMPANY

| Survey | | essional Survey Inform 33 and NGVD88 Established By 12/03/04 | | LEC Point ID | LEC Point Description | |
|----------------|-----------|--|-----------|--------------|--|--|
| Coordinate No. | North (Y) | East (X) | Elevation | | | |
| | FI | IN | FT | | the state of the s | |
| 1244 | 754412.27 | 471203.67 | 629.63 | FINAL ED PAV | FINAL GRADE POINT | |
| 1245 | 754404.54 | 471195.19 | 629.80 | FINAL ED PAV | FINAL GRADE POINT | |
| 1246 | 754393.95 | 471202.28 | 629.78 | FINAL ED PAV | FINAL GRADE POINT | |
| 1247 | 754381.36 | 471212.07 | 629.68 | FINAL ED PAV | FINAL GRADE POINT | |
| 1248 | 754382.16 | 471219.89 | 629.56 | FINAL ED PAV | FINAL GRADE POINT | |
| 1249 | 754371.51 | 471226.33 | 629.42 | FINAL ED PAV | FINAL GRADE POINT | |
| 1250 | 754368.21 | 471212.97 | 629.58 | FINAL ED PAV | FINAL GRADE POINT | |
| 1251 | 754378.20 | 471198.21 | 629.76 | FINAL ED PAV | FINAL GRADE POINT | |
| 1252 | 754383.37 | 471177.86 | 629.87 | FINAL ED PAV | FINAL GRADE POINT | |
| 1253 | 754399.79 | 471154.66 | 630.23 | FINAL ED PAV | FINAL GRADE POINT | |
| 1254 | 754416.19 | 471129.26 | 630.39 | FINAL ED PAV | FINAL GRADE POINT | |
| 1255 | 754409.45 | 471109.05 | 630.43 | FINAL ED PAV | FINAL GRADE POINT | |
| 1256 | 754398.57 | 471101.36 | 630.39 | FINAL ED PAV | FINAL GRADE POINT | |
| 1257 | 754397.90 | 471090.35 | 630.57 | FINAL ED PAV | FINAL GRADE POINT | |
| 1258 | 754383.15 | 471088.52 | 630.55 | FINAL ED PAV | FINAL GRADE POINT | |
| 1259 | 754369.85 | 471070,15 | 630.58 | FINAL ED PAV | FINAL GRADE POINT | |
| 1260 | 754369.16 | 471060.78 | 630.73 | FINAL ED PAV | FINAL GRADE POINT | |
| 1261 | 754382.63 | 471051.56 | 631.04 | FINAL ED PAV | FINAL GRADE POINT | |
| 1262 | 754394.22 | 471055.27 | 631.11 | FINAL ED PAV | FINAL GRADE POINT | |
| 1263 | 754405.70 | 471048.36 | 631.22 | FINAL ED PAV | FINAL GRADE POINT | |
| 1264 | 754414.68 | 471047.58 | 631.22 | FINAL ED PAV | FINAL GRADE POINT | |
| 1265 | 754432.57 | 471021.80 | 631.68 | FINAL ED PAV | FINAL GRADE POINT | |
| 1266 | 754464.03 | 471048.64 | 631.17 | FINAL ED PAV | FINAL GRADE POINT | |
| 1267 | 754476.38 | 471059.66 | 630.87 | FINAL ED PAV | FINAL GRADE POINT | |
| 1268 | 754497.93 | 471081.08 | 630.67 | FINAL ED PAV | FINAL GRADE POINT | |
| 1269 | 754503.19 | 471088.64 | 630.73 | FINAL ED PAV | FINAL GRADE POINT | |
| 1270 | 754505.53 | 471099.80 | 630.74 | FINAL ED PAV | FINAL GRADE POINT | |
| 1271 | 754517.61 | 471101.72 | 630.70 | FINAL ED PAV | FINAL GRADE POINT | |
| 1272 | 754499.92 | 471124.93 | 630.79 | FINAL PAVE | FINAL GRADE POINT | |

L.E. CARPENTER AND COMPANY

| Survey | | essional Survey Informa 33 and NGVD88 Established By 12/03/04 | | LEC Point ID | LEC Point Description |
|----------------|-----------|---|-----------|--------------|-----------------------|
| Coordinate No. | North (Y) | East (X) | Elevation | | |
| | FT | FT | FT | | |
| 1273 | 754472.95 | 471103.69 | 630.89 | FINAL PAVE | FINAL GRADE POINT |
| 1274 | 754443.45 | 471075.52 | 630,97 | FINAL PAVE | FINAL GRADE POINT |
| 1275 | 754405.60 | 471071.09 | 631.04 | FINAL PAVE | FINAL GRADE POINT |
| 1276 | 754425.77 | 471099.97 | 630,70 | FINAL PAVE | FINAL GRADE POINT |
| 1277 | 754443.07 | 471127.92 | 630.66 | FINAL PAVE | FINAL GRADE POINT |
| 1278 | 754455.64 | 471151.61 | 630.59 | FINAL PAVE | FINAL GRADE POINT |
| 1279 | 754429.37 | 471159.03 | 630.37 | FINAL PAVE | FINAL GRADE POINT |
| 1280 | 754411.19 | 471176.00 | 630.04 | FINAL PAVE | FINAL GRADE POINT |
| 1281 | 754393.24 | 471184.62 | 629.94 | FINAL PAVE | FINAL GRADE POINT |
| 1282 | 754344.22 | 471240.80 | 629.21 | FINAL TS | FINAL GRADE POINT |
| 1283 | 754325.79 | 471216.27 | 629,05 | FINAL TS | FINAL GRADE POINT |
| 1284 | 754319.43 | 471182.42 | 628.62 | FINALTS | FINAL GRADE POINT |
| 1285 | 754320.30 | 471152.41 | 628.79 | FINAL TS | FINAL GRADE POINT |
| 1286 | 754318.80 | 471127.47 | 629.11 | FINAL TS | FINAL GRADE POINT |
| 1287 | 754307.91 | 471112.97 | 628,56 | FINAL TS | FINAL GRADE POINT |
| 1288 | 754306.18 | 471088.57 | 628.71 | FINAL TS | FINAL GRADE POINT |
| 1289 | 754318.87 | 471063.81 | 629.79 | FINAL TS | FINAL GRADE POINT |
| 1290 | 754328.02 | 471054.21 | 630.01 | FINAL TS | FINAL GRADE POINT |
| 1291 | 754336.33 | 471023.02 | 630.58 | FINAL TS | FINAL GRADE POINT |
| 1292 | 754345.72 | 470994.25 | 631.09 | FINAL TS | FINAL GRADE POINT |
| 1293 | 754342.56 | 470980.22 | 631.45 | FINAL TS | FINAL GRADE POINT |
| 1294 | 754333.40 | 470957.40 | 632.41 | FINAL TS | FINAL GRADE POINT |
| 1295 | 754310.78 | 470934.46 | 632.89 | FINAL TS | FINAL GRADE POINT |
| 1296 | 754291.40 | 470909.26 | 633.40 | FINAL TS | FINAL GRADE POINT |
| 1297 | 754278:03 | 470895.67 | 633.31 | FINAL TS | FINAL GRADE POINT |
| 1298 | 754262.22 | 470877.77 | 634.25 | FINAL TS | FINAL GRADE POINT |
| 1299 | 754240.91 | 470858.02 | 634.80 | FINAL TS | FINAL GRADE POINT |
| 1300 | 754225.43 | 470843.54 | 635.31 | FINAL TS | FINAL GRADE POINT |
| 1301 | 754209.14 | 470838.11 | 635.29 | FINAL TS | FINAL GRADE POINT |

L.E. CARPENTER AND COMPANY

| Survey | 12/1/3/1/4 | | | LEC Point ID | LEC Point Description |
|----------------|------------|-----------|-----------------|--------------|-----------------------|
| Coordinate No. | North (Y) | East (X) | Elevation FT | 3. | |
| 1302 | 754190.32 | 470844.39 | 634.50 | FINAL TS | FINAL GRADE POINT |
| 1303 | 754168.91 | 470852.81 | 633.27 | FINAL TS | FINAL GRADE POINT |
| 1304 | 754168.76 | 470852.93 | 633.27 | FINAL TS | FINAL GRADE POINT |
| 1305 | 754154.33 | 470866.79 | 632.30 | FINAL TS | FINAL GRADE POINT |
| 1306 | 754139.37 | 470883.84 | 631.55 | FINAL TS | FINAL GRADE POINT |
| 1307 | 754130.75 | 470900,23 | 631.44 | FINAL TS | FINAL GRADE POINT |
| 1308 | 754120.06 | 470921.57 | 631.47 | FINAL TS | FINAL GRADE POINT |
| 1309 | 754118.90 | 470950:58 | 631.10 | FINAL TS | FINAL GRADE POINT |
| 1310 | 754118.39 | 470979.23 | 632.16 | FINAL TS | FINAL GRADE POINT |
| 1311 | 754119.58 | 471004.85 | 632.57 | FINAL TS | FINAL GRADE POINT |
| 1312 | 754119.61 | 471032.94 | 632.44 | FINAL TS | FINAL GRADE POINT |
| - 1313 | 754122.96 | 471060.63 | 631.72 | FINAL TS | FINAL GRADE POINT |
| 1314 | 754116.29 | 471084.57 | 632.00 | FINAL TS | FINAL GRADE POINT |
| 1315 | 754115.26 | 471104.77 | 631.65 | FINAL TS | FINAL GRADE POINT |
| 1316 | 754101.79 | 471110.19 | 631.91 | FINAL TS | FINAL GRADE POINT |
| 1317 | 754087.81 | 471110.78 | 632.05 | FINAL TS | FINAL GRADE POINT |
| 1318 | 754081.31 | 471110.59 | 631.57 | FINAL TS | FINAL GRADE POINT |
| 1319 | 754079.26 | 471101.54 | 632.04 | FINAL TS | FINAL GRADE POINT |
| 1320 | 754071.90 | 471089.60 | 632.13 | FINAL TS | FINAL GRADE POINT |
| 1321 | 754064.62 | 471085.56 | 632.12 | FINAL TS | FINAL GRADE POINT |
| 1322 | 754061.67 | 471078.07 | 632.30 | FINAL TS | FINAL GRADE POINT |
| 1323 | 754057.54 | 471066.57 | 631.34 | FINAL TS | FINAL GRADE POINT |
| - 1324 | 754047.22 | 471065.91 | 629.03 | FINAL BS | FINAL GRADE POINT |
| 1325 | 754048.11 | 471080.48 | 628.41 | FINAL BS | FINAL GRADE POINT |
| 1326 | 754048.16 | 471088.56 | 628.37 | FINAL BS | FINAL GRADE POINT |
| 1327 | 754056.98 | 471095.56 | 628.23 | FINAL BS | FINAL GRADE POINT |
| 1328 | 754059.59 | 471112.15 | 627.89 | FINAL BS | FINAL GRADE POINT |
| 1329 | 754062.94 | 471121.85 | 628.18 | FINAL BS | FINAL GRADE POINT |
| 1330 | 754071.40 | 471119.66 | 628.74 | FINAL BS | FINAL GRADE POINT |

L.E. CARPENTER AND COMPANY

| Survey | 12/03/04 | | | | LEC Point Description |
|----------------|-----------|-----------|-----------|--------------|--|
| Coordinate No. | North (Y) | East (X) | Elevation | LEC Point ID | |
| | FT | FT | FT | | nterior cal control the interior control to the con |
| 1331 | 754073.08 | 471133.21 | 628,40 | FINAL BS | FINAL GRADE POINT |
| 1332 | 754084.08 | 471145.62 | 629.01 | FINAL BS | FINAL GRADE POINT |
| 1333 | 754104.33 | 471148.08 | 629.24 | FINAL BS | FINAL GRADE POINT |
| 1334 | 754122.30 | 471146.42 | 628.68 | FINAL BS | FINAL GRADE POINT |
| 1335 | 754145.83 | 471130.62 | 628.36 | FINAL BS | FINAL GRADE POINT |
| 1336 | 754146.46 | 471101.99 | 628.77 | FINAL BS | FINAL GRADE POINT |
| 1337 | 754145.86 | 471078.36 | 628.70 | FINAL BS | FINAL GRADE POINT |
| 1338 | 754145.69 | 471043.33 | 629,21 | FINAL BS | FINAL GRADE POINT |
| 1339 | 754146.15 | 471011.18 | 629.13 | FINAL BS | FINAL GRADE POINT |
| 1340 | 754148.06 | 470984.44 | 629,25 | FINAL BS | FINAL GRADE POINT |
| 1341 | 754148.75 | 470953.77 | 629.01 | FINAL BS | FINAL GRADE POINT |
| 1342 | 754144.68 | 470927.68 | 629.07 | FINAL BS | FINAL GRADE POINT |
| 1343 | 754142.39 | 470909.17 | 628.82 | FINAL BS | FINAL GRADE POINT |
| 1344 | 754149.79 | 470903.07 | 628.87 | FINAL BS | FINAL GRADE POINT |
| 1345 | 754162.89 | 470894.84 | 628.95 | FINAL BS | FINAL GRADE POINT |
| 1346 | 754182.41 | 470887.33 | 628.74 | FINAL BS | FINAL GRADE POINT |
| 1347 | 754198.68 | 470888.43 | 629.16 | FINAL BS | FINAL GRADE POINT |
| 1348 | 754225.89 | 470894.66 | 629.36 | FINAL BS | FINAL GRADE POINT |
| 1349 | 754246.73 | 470905.74 | 629.02 | FINAL BS | FINAL GRADE POINT |
| 1350 | 754262.19 | 470919.74 | 629.06 | FINAL BS | FINAL GRADE POINT |
| 1351 | 754283.38 | 470936.70 | 629.01 | FINAL BS | FINAL GRADE POINT |
| 1352 | 754296.25 | 470949.17 | 628.64 | FINAL BS | FINAL GRADE POINT |
| 1353 | 754311.20 | 470965.20 | 628.56 | FINAL BS | FINAL GRADE POINT |
| 1354 | 754320.24 | 470977.14 | 628.48 | FINAL BS | FINAL GRADE POINT |
| 1355 | 754321.55 | 470988.32 | 628.52 | FINAL BS | FINAL GRADE POINT |
| 1356 | 754314.15 | 470999.98 | 628.42 | FINAL BS | FINAL GRADE POINT |
| 1357 | 754306.61 | 471014.13 | 628.10 | FINAL BS | FINAL GRADE POINT |
| 1358 | 754297.65 | 471034.45 | 628.09 | FINAL BS | FINAL GRADE POINT |
| 1359 | 754289.64 | 471058.40 | 627.59 | FINAL BS | FINAL GRADE POINT |

L.E. CARPENTER AND COMPANY

| Survey | LEC Point ID | | | | LEC Point Description |
|----------------|--------------|-----------|-----------|---------------|---------------------------------------|
| Coordinate No. | North (Y) | East (X) | Elevation | | • • • • • • • • • • • • • • • • • • • |
| | FT | FT | FT | | |
| 1360 | 754281.89 | 471075.23 | 627.27 | FINAL BS | FINAL GRADE POINT |
| 1361 | 754282.67 | 471089.62 | 627.21 | FINAL BS | FINAL GRADE POINT |
| 1362 | 754287.63 | 471106.11 | 627.13 | FINAL BS | FINAL GRADE POINT |
| 1363 | 754290.54 | 471113.74 | 627.04 | FINAL BS | FINAL GRADE POINT |
| 1364 | 754289.51 | 471133.77 | 626.59 | FINAL BS | FINAL GRADE POINT |
| 1365 | 754285.12 | 471160.04 | 626.39 | FINAL BS | FINAL GRADE POINT |
| 1366 | 754282.83 | 471179.67 | 626.06 | FINAL BS | FINAL GRADE POINT |
| 1367 | 754284.93 | 471201.32 | 626.00 | FINAL BS | FINAL GRADE POINT |
| 1368 | 754287.63 | 471218.37 | 626.05 | FINAL BS | FINAL GRADE POINT |
| 1369 | 754295.17 | 471234.40 | 626:06 | FINAL BS | FINAL GRADE POINT |
| 1370 | 754301.08 | 471249.42 | 625.90 | FINAL BS | FINAL GRADE POINT |
| 1371 | 754306.75 | 471263.08 | 625.67 | FINAL BS | FINAL GRADE POINT |
| 1372 | 754315.73 | 471268.75 | 625.22 | FINAL BS | FINAL GRADE POINT |
| 1373 | 754325.91 | 471266.62 | 625.07 | FINAL BS | FINAL GRADE POINT |
| 1374 | 754331.42 | 471265.21 | 624.56 | FINAL BS | FINAL GRADE POINT |
| 1375 | 754338.57 | 471258.64 | 624.43 | FINAL BS | FINAL GRADE POINT |
| 1376 | 754344.39 | 471256.06 | 624.13 | FINAL BS | FINAL GRADE POINT |
| 1377 | 754350.03 | 471253.96 | 624.96 | FINAL BS | FINAL GRADE POINT |
| 1378 | 754349.29 | 471258.60 | 624.34 | FINAL GND FNC | FINAL GRADE POINT |
| 1379 | 754336.80 | 471266.82 | 624.45 | FINAL GND FNC | FINAL GRADE POINT |
| 1380 | 754324.44 | 471272.86 | 624.70 | FINAL GND FNC | FINAL GRADE POINT |
| 1381 | 754301.79 | 471283.80 | 624.74 | FINAL GND FNC | FINAL GRADE POINT |
| 1382 | 754292.79 | 471288.16 | 624.74 | FINAL GND FNC | FINAL GRADE POINT |
| 1383 | 754279.12 | 471298.91 | 624.65 | FINAL GND FNC | FINAL GRADE POINT |
| 1384 | 754266.68 | 471315.54 | 624.93 | FINAL GND FNC | FINAL GRADE POINT |
| 1385 | 754261.21 | 471331.72 | 625.15 | FINAL GND FNC | FINAL GRADE POINT |
| 1386 | 754260.31 | 471352.38 | 625.04 | FINAL GND FNC | FINAL GRADE POINT |
| 1387 | 754265.65 | 471375.78 | 624.77 | FINAL GND FNC | FINAL GRADE POINT |
| 1388 | 754250.93 | 471379.78 | 625.26 | FINAL GND | FINAL GRADE POINT |

L.E. CARPENTER AND COMPANY

| Survey | 140J0± | | | LEC Point ID | LEC Point Description |
|----------------|-----------|-----------|-----------|---------------|-----------------------|
| Coordinate No. | North (Y) | East (X) | Elevation | | |
| | FT | FΓ | . FT | | |
| 1389 | 754259.50 | 471404.18 | 624.58 | FINAL GND | FINAL GRADE POINT |
| 1390 | 754267.26 | 471427.08 | 624.33 | FINAL GND | FINAL GRADE POINT |
| 1391 | 754275.80 | 471448.44 | 624.27 | FINAL GND | FINAL GRADE POINT |
| 1392 | 754274.35 | 471467.24 | 624.72 | FINAL GND | FINAL GRADE POINT |
| 1393 | 754283.49 | 471490.36 | 624.83 | FINAL GND | FINAL GRADE POINT |
| 1394 | 754290.90 | 471480.29 | 624.03 | FINAL GND | FINAL GRADE POINT |
| 1395 | 754269.33 | 471500.17 | 624.48 | FINAL GND | FINAL GRADE POINT |
| 1396 | 754254.22 | 471502.43 | 624.94 | FINAL GND | FINAL GRADE POINT |
| 1397 | 754238.51 | 471504.29 | 624.42 | FINAL GND | FINAL GRADE POINT |
| 1398 | 754221.69 | 471491.23 | 624:98 | FINAL GND | - FINAL GRADE POINT |
| 1399 | 754183.32 | 471480.16 | 624.61 | FINAL GND FNC | FINAL GRADE POINT |
| 1400 | 754156.44 | 471456.36 | 624.47 | FINAL GND FNC | FINAL GRADE POINT |
| 1401 | 754151.47 | 471420.80 | 625.38 | FINAL GND FNC | FINAL GRADE POINT |
| 1402 | 754151.32 | 471398.77 | 625.06 | FINAL GND FNC | FINAL GRADE POINT |
| 1403 | 754155.12 | 471363.87 | 625.12 | FINAL GND FNC | FINAL GRADE POINT |
| 1404 | 754157.19 | 471347.19 | 626.26 | FINAL GND FNC | FINAL GRADE POINT |
| 1405 | 754155.17 | 471303.63 | 626.74 | FINAL GND FNC | FINAL GRADE POINT |
| 1406 | 754180.35 | 471305.00 | 626.44 | FINAL Gnd | FINAL GRADE POINT |
| 1407 | 754187.70 | 471340.38 | 625.82 | FINAL Gnd | FINAL GRADE POINT |
| 1408 | 754185.03 | 471374.03 | 625.45 | FINAL Gnd | FINAL GRADE POINT |
| 1409 | 754182.05 | 471398.47 | 625.23 | FINAL Gnd | FINAL GRADE POINT |
| 1410 | 754186.30 | 471436.19 | 625.05 | FINAL Gnd | FINAL GRADE POINT |
| 1411 | 754200.82 | 471454.49 | 624,92 | FINAL Gnd | FINAL GRADE POINT |
| 1412 | 754210.90 | 471427.56 | 625.06 | FINAL Gnd | FINAL GRADE POINT |
| 1413 | 754212.19 | 471386.29 | 625.07 | FINAL Gnd | FINAL GRADE POINT |
| 1414 | 754213.19 | 471344.00 | 625.36 | FINAL Gnd | FINAL GRADE POINT |
| 1415 | 754237.25 | 471338.83 | 625.23 | FINAL Gnd | FINAL GRADE POINT |
| 1416 | 754250.26 | 471314.13 | 625.38 | FINAL Gnd | FINAL GRADE POINT |
| 1417 | 754248.28 | 471365.19 | 625.11 | FINAL Gnd | FINAL GRADE POINT |

L.E. CARPENTER AND COMPANY

| Survey Coordinate No. | Professional Survey Information New Jersey State Plan NAD83 and NGVD88 Established By GPS Survey Opus Solution 12/03/04 | | | LEC Point ID | LEC Point Description |
|--------------------------|---|----------------|---------------------------------------|-----------------------|-----------------------|
| | North (Y) FI | East (X) FT | Elevation FT | | |
| 1418 | 754228.95 | 471377.89 | 625.20 | FINAL Gnd | FINAL GRADE POINT |
| 1419 | 754234.80 | 471406.31 | 625.15 | FINAL Gnd | FINAL GRADE POINT |
| 1420 | 754247.24 | 471436,21 | 624.95 | FINAL Gnd | FINAL GRADE POINT |
| | 754247.24 | 471461.21 | 624.91 | FINAL GIId FINAL GIId | FINAL GRADE POINT |
| 1421 | | | · · · · · · · · · · · · · · · · · · · | <u> </u> | FINAL GRADE POINT |
| 1422 | 754254.68 | 471475.28 | 624.78 | FINAL Gnd | |
| 1423 | 754234.56 | 471466.68 | 624.81 | FINAL Gnd | FINAL GRADE POINT |
| 1424 | 754224.02 | 471426.05 | 625.09 | FINAL Gnd | FINAL GRADE POINT |
| 1425 | 754215.13 | 471398.85 | 625.20 | FINAL Gnd | FINAL GRADE POINT |
| 1426 | 754300.70 | 471270.00 | 625.10 | FINAL Gnd | FINAL GRADE POINT |
| 1427 | 754283.06 | 471242.26 | 625.50 | FINAL Gnd | FINAL GRADE POINT |
| 1428 | 754266.66 | 471208.41 | 625.76 | FINAL Gnd | FINAL GRADE POINT |
| 1429 | 754256.78 | 471177.70 | 626.09 | FINAL Gnd | FINAL GRADE POINT |
| 1430 | 754257.75 | 471153.04 | 626.24 | FINAL Gnd | FINAL GRADE POINT |
| 1431 | 754258.27 | 471125.76 | 626.53 | FINAL Gnd | FINAL GRADE POINT |
| 1432 | 754228.16 | 471129.46 | 626.68 | FINAL Gnd | FINAL GRADE POINT |
| 1433 | 754192.36 | 471138.11 | 626.67 | FINAL Gnd | FINAL GRADE POINT |
| 1434 | 754177.56 ⁻ | 471149.56 | 626.77 | FINAL Gnd | FINAL GRADE POINT |
| 1435 | 754156.13 | 471170.28 | 627.72 | FINAL Gnd | FINAL GRADE POINT |
| 1436 | 754120.45 | 471191.56 | 628.00 | FINAL Gnd | FINAL GRADE POINT |
| 1437 | 754134.41 | 471218.93 | 627.67 | FINAL Gnd | FINAL GRADE POINT |
| 1438 | 754153.16 | 471213.84 | 627.95 | FINAL Gnd | FINAL GRADE POINT |
| 1439 | 754173,13 | 471206.10 | 627.27 | FINAL Gnd | FINAL GRADE POINT |
| 1440 | 754192.70 | 471198.44 | 626.32 | FINAL Gnd | FINAL GRADE POINT |
| 1441 | 754217.10 | 471190.96 | 626.19 | FINAL Gnd | FINAL GRADE POINT |
| 1442 | 754237.17 | 471184.66 | 626.30 | FINAL Gnd | FINAL GRADE POINT |
| 1443 | 754245.14 | 471224.51 | 625:67 | FINAL Gnd | FINAL GRADE POINT |
| 1444 | 754245.26 | 471224.58 | 625.59 | FINAL Gnd | FINAL GRADE POINT |
| 1445 | 754258.84 | 471274.62 | 625.25 | FINAL Gnd | FINAL GRADE POINT |
| 1446 | 754235.71 | 471282.65 | 625.20 | FINAL Gnd | FINAL GRADE POINT |

L.E. CARPENTER AND COMPANY

| Survey Coordinate No. | Professional Survey Information New Jersey State Plan NAD83 and NGVD88 Established By GPS Survey Opus Solution 12/03/04 | | | LEC Point ID | LEC Point Description |
|--------------------------|---|-----------|-----------|---------------|--|
| | North (Y) | East (X) | Elevation | | |
| | FT | FT TO | ri y | | and the second s |
| 1447 | 754226.24 | 471254.44 | 625,57 | FINAL Gnd | FINAL GRADE POINT |
| 1448 | 754213,01 | 471223:05 | 625.96 | FINAL Gnd | FINAL GRADE POINT |
| 1449 | 754188.67 | 471239.02 | 626.53 | FINAL Gnd | FINAL GRADE POINT |
| 1450 | 754204.86 | 471269:03 | 625.97 | FINAL Gnd | FINAL GRADE POINT |
| 1451 | 754176.92 | 471272.86 | 626.55 | FINAL Gnd | FINAL GRADE POINT |
| 1452 | 754156.74 | 471253.45 | 627.39 | FINAL Gnd | FINAL GRADE POINT |
| 1453 | 754141.78 | 471246.85 | 627.31 | FINAL Gnd | FINAL GRADE POINT |
| 1454 | 754133.55 | 471263.26 | 627.10 | FINAL Gnd | FINAL GRADE POINT |
| 1455 | 754150.28 | 471278.54 | 626.91 | FINAL Gnd | FINAL GRADE POINT |
| 1456 | 754130.62 | 471271.83 | 627.25 | FINAL Gnd FNC | FINAL GRADE POINT |
| 1457 | 754105.25 | 471250.42 | 627.26 | FINAL Gnd FNC | FINAL GRADE POINT |
| 1458 | 754085.17 | 471225.96 | 627.23 | FINAL Gnd FNC | FINAL GRADE POINT |
| 1459 | 754074.93 | 471205.49 | 627.66 | FINAL Gnd FNC | FINAL GRADE POINT |
| 1460 | 754066.34 | 471173.29 | 627.85 | FINAL Gnd FNC | FINAL GRADE POINT |
| 1461 | 754058.67 | 471136.06 | 627.88 | FINAL Gnd FNC | FINAL GRADE POINT |
| 1462 | 754053.17 | 471118.70 | 627.95 | FINAL Gnd FNC | FINAL GRADE POINT |
| 1463 | 754047.82 | 471099.82 | 628.25 | FINAL Gnd FNC | FINAL GRADE POINT |
| 1464 | 754045.75 | 471054.09 | 629.08 | FINAL Gnd FNC | FINAL GRADE POINT |
| 1465 | 754052.69 | 471022.30 | 629.01 | FINAL Gnd FNC | FINAL GRADE POINT |
| 1466 | 754054.73 | 470990.35 | 629.46 | FINAL Gnd FNC | FINAL GRADE POINT |
| 1467 | 754060.79 | 470966.45 | 629.91 | FINAL Gnd FNC | FINAL GRADE POINT |
| 1468 | 754066.06 | 470949.40 | 628.99 | FINAL Gnd FNC | FINAL GRADE POINT |
| 1469 | 754070.65 | 470930.70 | 629.43 | FINAL Gnd FNC | FINAL-GRADE POINT |
| 1470 | 754079.57 | 470902.46 | 629.15 | FINAL Gnd FNC | FINAL GRADE POINT |
| 1471 | 754088.37 | 470870.90 | 630.18 | FINAL Gnd FNC | FINAL GRADE POINT |
| 1472 | 754096.00 | 470844.64 | 631.82 | FINAL Gnd FNC | FINAL GRADE POINT |
| 1473 | 754100.28 | 470813.15 | 631.83 | FINAL Gnd FNC | FINAL GRADE POINT |
| 1474 | 754105.59 | 470787.90 | 632.07 | FINAL Gnd FNC | FINAL GRADE POINT |
| 1475 | 754115.54 | 470760.50 | 632.32 | FINAL Gnd FNC | FINAL GRADE POINT |

L.E. CARPENTER AND COMPANY

| Survey Coordinate No. | Professional Survey Information New Jersey State Plan NAD83 and NGVD88 Established By GPS Survey Opus Solution 12/03/04 | | | LEC Point ID | LEC Point Description |
|--------------------------|---|-----------|-----------------|---------------|-----------------------|
| | North (Y) FT | East (X) | Elevation FT | | |
| 1476 | 754131.08 | 470752.38 | 632.89 | FINAL Gnd FNC | FINAL GRADE POINT |
| 1477 | 754145.59 | 470754.34 | 633.40 | FINAL Gnd FNC | FINAL GRADE POINT |
| 1478 | 754164.99 | 470770.28 | 634.09 | FINAL Gnd FNC | FINAL GRADE POINT |
| 1479 | 754187.70 | 470789.61 | 635.01 | FINAL Gnd FNC | FINAL GRADE POINT |
| 1480 | 754209.57 | 470810.00 | 636.17 | FINAL Gnd FNC | FINAL GRADE POINT |
| 1481 | 754237.35 | 470836.48 | 636.01 | FINAL Gnd FNC | FINAL GRADE POINT |
| 1482 | 754260.92 | 470858.88 | 635.49 | FINAL Gnd FNC | FINAL GRADE POINT |
| 1483 | 754282.48 | 470880.30 | 634.80 | FINAL Gnd FNC | FINAL GRADE POINT |
| 1484 | 754312.77 | 470908.64 | 634.32 | FINAL Gnd FNC | FINAL GRADE POINT |
| 1485 | 754338.82 | 470934.26 | 633.62 | FINAL Gnd FNC | FINAL GRADE POINT |
| 1486 | 754362.01 | 470955.70 | 633.17 | FINAL Gnd FNC | FINAL GRADE POINT |
| 1487 | 754382.90 | 470973.00 | 632:54 | FINAL Gnd FNC | FINAL GRADE POINT |
| 1488 | 754412.40 | 471000.74 | 632.09 | FINAL Gnd FNC | FINAL GRADE POINT |
| 1489 | 754438.38 | 471024.55 | 631.65 | FINAL Gnd FNC | FINAL GRADE POINT |
| 1490 | 754403.15 | 471024.25 | 631.73 | FINAL Gnd | FINAL GRADE POINT |
| 1491 | 754376.27 | 471019.84 | 631.75 | FINAL Gnd | FINAL GRADE POINT |
| 1492 | 754356.16 | 471026.90 | 631.08 | FINAL Gnd | FINAL GRADE POINT |
| 1493 | 754347.18 | 471052.12 | 630.17 | FINAL Gnd | FINAL GRADE POINT |
| 1494 | 754340.89 | 471083.62 | 629.88 | FINAL Gnd | FINAL GRADE POINT |
| 1495 | 754336.05 | 471118.86 | 629.40 | FINAL Gnd | FINAL GRADE POINT |
| 1496 | 754366.67 | 471121.50 | 630.13 | FINAL Gnd | FINAL GRADE POINT |
| 1497 | 754371.38 | 471144.47 | 630.16 | FINAL Gnd | FINAL GRADE POINT |
| 1498 | 754356.52 | 471159.07 | 629.50 | FINAL Gnd | FINAL GRADE POINT |
| 1499 | 754336.47 | 471159.68 | 629.15 | FINAL Gnd | FINAL GRADE POINT |
| 1500 | 754344.85 | 471186.88 | 629.28 | FINAL Gnd | FINAL GRADE POINT |
| 1501 | 754341.31 | 471208.91 | 629.63 | FINAL Gnd | FINAL GRADE POINT |
| 1502 | 754105.69 | 471127.16 | 630.60 | FINAL Gnd | FINAL GRADE POINT |
| 1503 | 754100.26 | 471072.71 | 632.29 | FINAL Gnd | FINAL GRADE POINT |
| 1504 | 754066.25 | 471067.91 | 632.17 | FINAL Gnd | FINAL GRADE POINT |

L.E. CARPENTER AND COMPANY

| Survey Coordinate No. | Professional Survey Information New Jersey State Plan NAD83 and NGVD88 Established By GPS Survey Opus Solution 12/03/04 | | | LEC Point ID | LEC Point Description |
|--------------------------|---|-----------|-----------|---------------|-----------------------|
| | North (Y) | East (X) | Elevation | | |
| | FT | FT | FT | | |
| 1505 | 754062.78 | 471048.81 | 631.57 | FINAL Gnd | FINAL GRADE POINT |
| 1506 | 754072.62 | 471043.89 | 632,06 | FINAL Gnd | FINAL GRADE POINT |
| 1507 | 754089.80 | 471039.04 | 632.10 | FINAL Gnd | FINAL GRADE POINT |
| 1508 | 754096.01 | 471019.48 | 632,26 | FINAL Gnd | FINAL GRADE POINT |
| 1509 | 754078.46 | 471018.07 | 631.69 | FINAL Gnd | FINAL GRADE POINT |
| 1510 | 754079.68 | 470997.99 | 631.01 | FINAL Gnd | FINAL GRADE POINT |
| 1511 | 754103.52 | 470994.70 | 632.60 | FINAL Gnd | FINAL GRADE POINT |
| 1512 | 754100.66 | 470973.66 | 632.14 | FINAL Gnd | FINAL GRADE POINT |
| 1513 | 754078.34 | 470969.85 | 630.39 | FINAL Gnd | FINAL GRÅDE POINT |
| 1514 | 754068.16 | 470958.33 | 630.31 | FINAL TOP PAD | FINAL GRADE POINT |
| 1515 | 754065.93 | 470952.62 | 630.34 | FINAL TOP PAD | FINAL GRADE POINT |
| 1516 | 754068.65 | 470947.51 | 630.15 | FINAL TOP PAD | FINAL GRADE POINT |
| 1517 | 754073.49 | 470946.06 | 630.10 | FINAL TOP PAD | FINAL GRADE POINT |
| 1518 | 754068.30 | 470947.40 | 629.01 | FINAL BOT PAD | FINAL GRADE POINT |
| 1519 | 754065.79 | 470952.65 | 629.02 | FINAL BOT PAD | FINAL GRADE POINT |
| 1520 | 754067.30 | 470957.03 | 629.37 | FINAL BOT PAD | FINAL GRADE POINT |
| 1521 | 754071.88 | 470946.23 | 629.54 | FINAL BOT PAD | FINAL GRADE POINT |
| 1522 | 754086.61 | 470936.08 | 630.61 | FINAL Gnd | FINAL GRADE POINT |
| 1523 | 754105.02 | 470929.25 | 631.08 | FINAL Gnd | FINAL GRADE POINT |
| 1524 | 754117.11 | 470891.89 | 631.61 | FINAL Gnd | FINAL GRADE POINT |
| 1525 | 754100.60 | 470884.52 | 631.05 | FINAL Gnd | FINAL GRADE POINT |
| 1526 | 754110.57 | 470855.27 | 631.96 | FINAL Gnd | FINAL GRADE POINT |
| 1527 | 754135.99 | 470855.30 | 632.63 | FINAL Gnd | FINAL GRADE POINT |
| 1528 | 754160.12 | 470833.52 | 633.91 | FINAL Gnd | FINAL GRADE POINT |
| 1529 | 754137.79 | 470804.55 | 633.50 | FINAL Gnd | FINAL GRADE POINT |
| 1530 | 754151.97 | 470788.79 | 633.97 | FINAL Gnd | FINAL GRADE POINT |
| 1531 | 754172.06 | 470807.17 | 634.69 | FINAL Gnd | FINAL GRADE POINT |
| 1532 | 754183.97 | 470821.72 | 635.30 | FINAL Gnd | FINAL GRADE POINT |
| 1533 | 754205.71 | 470832.82 | 635.45 | FINAL Gnd | FINAL GRADE POINT |

L.E. CARPENTER AND COMPANY

| Survey Coordinate No. | Professional Survey Information New Jersey State Plan NAD83 and NGVD88 Established By GPS Survey Opus Solution 12/03/04 | | | LEC Point ID | LEC Point Description | |
|--------------------------|---|-----------|---------------------------------------|---------------------|--|--|
| | North (Y) | East (X) | Elevation | | | |
| | F | FI | FT | 1 2 " | | |
| 1534 | 754231,51 | 470850.72 | 635.12 | FINAL Gnd | FINAL GRADE POINT | |
| 1535 | 754181.37 | 470924.70 | 628.82 | FINAL Gnd | FINAL GRADE POINT | |
| 1536 | 754223.95 | 470945.20 | 628.71 | FINAL Gnd | FINAL GRADE POINT | |
| 1537 | 754262.92 | 470961.81 | 628.44 | FINAL Gnd | FINAL GRADE POINT | |
| 1538 | 754262.28 | 471006:01 | 628.34 | FINAL Gnd | FINAL GRADE POINT | |
| 1539 | 754230.93 | 471011.70 | 628.42 | FINAL Gnd | FINAL GRADE POINT | |
| 1540 | 754193.78 | 471009.40 | 628.30 | FINAL Gnd | FINAL GRADE POINT | |
| 1541 | 754186.41 | 471049.89 | 627.95 | FINAL Gnd | FINAL GRADE POINT | |
| 1542 | 754218.99 | 471052.69 | 627.56 | FINAL Gnd | FINAL GRADE POINT | |
| 1543 | 754253,25 | 471059.88 | 627.89 | FINAL Gnd | FINAL GRADE POINT | |
| 1544 | 754254.16 | 471095.81 | 627.18 | FINAL Gnd | FINAL GRADE POINT | |
| 1545 | 754225.32 | 471098.71 | 627.36 | FINAL Gnd | FINAL GRADE POINT | |
| 1546 | 754194.96 | 471103.51 | 627.33 | FINAL Gnd | FINAL GRADE POINT | |
| 1547 | 754166.79 | 471107.80 | 627.85 | FINAL Gnd | FINAL GRADE POINT | |
| PVC-1 | 754326.7 | 471261.3 | | 3'X 3" PVC PIPE | WETLAND RESTORATION AREA BOUNDRY POINT [LURP SPECIAL CONDITION 11C] | |
| PVC-2 | 754149.8 | 471284.1 | | 3'X 3" PVC PIPE | WETLAND RESTORATION AREA BOUNDRY POINT [LURP SPECIAL CONDITION 11C] | |
| PVC-3 | 754226.1 | 471289.1 | : | 3'X 3" PVC PIPE | WETLAND RESTORATION AREA BOUNDRY POINT [LURP SPECIAL CONDITION 11C] | |
| BORING 1 | 754293.1 | 471285.8 | | SOIL PROFILE BORING | SOIL BORING LOCATION [LURP SPECIAL CONDITION 11E] | |
| BORING 2 | 754234.1 | 471307 | · · · · · · · · · · · · · · · · · · · | SOIL PROFILE BORING | SOIL BORING LOCATION [LURP SPECIAL CONDITION 11E] | |
| BORING 3 | 754166 | 471293.2 | • • | SOIL PROFILE BORING | SOIL BORING LOCATION [LURP SPECIAL CONDITION 11E] | |
| BORING 4 | 754185.8 | 471395.7 | | SOIL PROFILE BORING | SOIL BORING LOCATION [LURP SPECIAL CONDITION 11E] | |
| BORING 5 | 754254.8 | 471436.3 | | SOIL PROFILE BORING | SOIL BORING LOCATION [LURP SPECIAL CONDITION 11E] | |
| BORING 6 | 754070.8 | 471033.1 | | SOIL PROFILE BORING | SOIL BORING LOCATION [LURP SPECIAL CONDITION 11E] | |

Appendix C:

Topsoil Analytical Data



Bendendorf Landscaping Route 46 Mine Hill,NJ 07847

re: Our No. 8645

Gentlemen:

Enclosed are the test results for the topsoil samples delivered June 6,1997. The N.J.D.O.T. spec. is for comparison.

| N.J.D.O.T. | | topsoil (| Brown #1 | Black | #2 |
|-------------|---------------|-----------|----------|--------------|---------|
| | * | 197 | % Passin | g Dry Weight | \cdot |
| Sand | 2.0~.05mm | 40%-80% | 55 | 64 | |
| Silt | .05005mm | 08-308 | 19 | 28 | - |
| Clay | <.005mm | 08-30% | 6 | . 8 | |
| Ĥq | | 5-8-6.5 | 5.5 | 5:8 | ŗ |
| Organic | | 2.75 | 12.6 | 57.7 | -high |
| Delivered W | ater Contents | | 24.3 | 125.6 | |

Note: The Sand size particles for sample \$2 include organic material.

Very truly yours,

John C. Mahle, Jr.

Appendix D:

Site Photographs





Photo 1. View looking south from northwest corner of planting area.



Photo 2. View looking southeast from northwest corner of planting area.





Photo 3. View looking east/southeast at wooded wetland from center of transition zone.



Photo 4. View looking southwest from center of transition zone.





Photo 5. View looking northwest from north edge of transition zone.



Photo 6. View looking north/northwest from north edge of transition zone.





Photo 7. View looking southwest from center of transition zone.



Photo 8. View looking southwest from west edge of transition zone. PVC marker is evident.





Photo 9. View looking northeast from point outside and west of the planting zone.



Photo 10. View looking northwest from west edge of transition zone.





Photo 11. View looking southwest at small transition zone area (0.02 acre).



Photo 12. View looking east into planting area from point west of transition zone.



Appendix E:

Wetland Mitigation Project Completion of Construction Form



WETLAND MITIGATION PROJECT COMPLETION OF CONSTRUCTION FORM

THE COMPLETION OF THIS FORM IS A <u>REQUIREMENT</u> OF THE NJDEP AUTHORIZATION OF A WETLAND MITIGATION PROJECT. THIRTY DAYS FOLLOWING THE COMPLETION OF CONSTRUCTION OF THE WETLAND MITIGATION PROJECT, COMPLETE THIS FORM AND INCLUDE IT WITH YOUR ASBUILT MITIGATION REPORT. SEND ALL DOCUMENTS TO THE ADDRESS REFERENCED BELOW.

THE COMPLETION OF THIS FORM HEREBY CERTIFIES THAT I,

| BRIAN MAJKA | | , JULY 15, 2005 |
|--------------------------|------------------------|----------------------|
| (PRINT NAME) | (SIGNATURE) | (DATE) |
| OF THE CONSULTING FIRM: | JFNew & Associates, In | ıc. |
| SUPERVISED THE CONSTRUCT | TION OF THE REFERE | NCED WETLAND/STATE |
| OPEN WATER MITIGATION P | ROJECT. I WAS PRES | ENT DURING CRITICAL |
| STAGES OF CONSTRUCTION 7 | TO CONFIRM THAT AL | L CONDITIONS OF THE |
| MITIGATION APPROVAL WE | RE ADHERED TO, TH | AT THE ANTICIPATED |
| HYDROLOGY WAS ACHIEVED | AND HEREBY CERTIF | TY THAT THE PROJECT |
| WAS CONSTRUCTED IN CONFO | DRMANCE WITH ALL N | JDEP APPROVED PLANS |
| AND SPECIFICATIONS CITED | BELOW, INCLUDING | FIELD ADJUSTMENTS |
| AGREED UPON DURING ONSIT | E MEETINGS WITH NJ | DEP MITIGATION STAFF |
| ON THE FOLLOWING DATES: | June 24, 2005 . | |

PERMIT NUMBER:

1439-04-0001.1 (FWW 040001)

ISSUANCE DATE:

February 25, 2005

NAME OF PERMITTEE:

L.E. Carpenter & Company

PROJECT NAME:

Source Reduction Remedial Project

AS BUILT SURVEY IS IDENTIFIED AS:

Appendix B: Source Reduction Wetland Impact Specific Survey Coordinate Table

Figure 2:

As-Built Wetland Restoration Map, dated August 2005

ADDRESS OF SURVEY FIRM:

Weber Associates, Inc. 47 Woodport Road Sparta, NJ 07871-2417

TELEPHONE #:

(973) 726-4240

E-MAIL ADDRESS: wsurveying@att.net

FAX #:

(973) 726-4239

SEND TO STATE OF NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION, LAND USE REGULATION PROGRAM, P.O. BOX 439, TRENTON, NJ 08625, ATTN: MITIGATION SECTION

mitcompletionform4-03 revised4/03